

39196. BALANITES MAUGHAMII Sprague. Zygophyllaceæ.

From Swaziland, Africa. Presented by Mr. J. Burt Davy, botanist, Agricultural Supply Association, Johannesburg, Transvaal, Union of South Africa. Received September 1, 1914.

"The seed is considered a valuable oil seed in those parts of the country in which it grows; that is to say, at altitudes below 1,500 feet in the sub-tropical belt, but with a comparatively low rainfall, probably not more than 15 inches, this coming during the summer season. The tree is a handsome one, though not very large, and should be useful in Florida." (Davy.)

"This species of *Balanites* is a native of Portuguese East Africa and may be found growing in the Lebombo Mountains, the Madanda Forest, and by the Umbeluzi and Rovuma Rivers. It is a tree which reaches a height of about 50 feet, with irregular-shaped bole up to 1½ feet in diameter. According to the report of the Imperial Institute, the fruits of *Balanites maughamii* seem unlikely to be of economic value for export, owing to the difficulty of removing the external sugary pulp and extracting the kernel from the thick, fibrous shell in which it is inclosed, but may, however, be of considerable importance for local consumption. The oil obtained from these kernels is clear, yellow, and liquid, possessing no marked smell or taste and having the following constants: Specific gravity, 0.916; saponification value, 198.5; iodine value, 100. The oil, if produced on a commercial scale, would probably realize the current price of refined cottonseed oil, but it is thought that the difficulties mentioned above would prevent its production on a large scale. Judging from the localities where this species is known to occur, it might be expected to do well in tropical and subtropical countries with a well-marked dry season. It would not be advisable to plant it on a large scale, however, until a satisfactory method of extracting the kernel has been devised." (*Kew Bulletin of Miscellaneous Information*, 1913, No. 4, p. 136.)

39197. AMARANTHUS GANGETICUS L. Amaranthaceæ. Amaranth.

From Seharunpur, India. Presented by Mr. A. C. Hartless, superintendent, Government Botanical Gardens. Received September 4, 1914.

"Var. *tristis*. *Lal-sag*, a vegetable that we use here during our hot season; it should be sown in the summer, as it will not stand cold." (Hartless.)

39198. LUPINUS PILOSUS Murray. Fabaceæ. Lupine.

From Kyimbila, German East Africa. Presented by Mr. Ad. Stolz. Received August 31, 1914.

"African lupine growing wild on sandy soil." (Stolz.)

Distribution.—An annual lupine with digitate leaves and large blue flowers, found in the countries bordering on the Mediterranean from Greece to Palestine.

39199 to 39218. ORYZA SATIVA L. Poaceæ. Rice.

From Buitenzorg, Java. Presented by the Botanic Gardens. Received September 8, 1914.

39199. *Berod*.

39203. *Kawoeng*.

39200. *Pelak*.

39204. *Balidjembel*.

39201. *Pandan*.

39205. *Dyalen*.

39202. *Glindoeran*.

39206. *Laradjawi*.